Sachin Bharbey

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Introduction

I'm an aspiring data scientist with a passion for turning data into actionable insights. I'm comfortable using Python (Pandas, NumPy, Scikit-learn) for data analysis and building models, and I enjoy creating interactive dashboards with Power BI. I love diving into problems, whether it's predicting future trends or analyzing past data to help businesses make better decisions. I'm excited to bring my skills in predictive modeling and data visualization to real-world challenges.

Education

Sant Longowal Institute of Engineering and Technology — Sangrur, Punjab
Bachelor of Engineering in Electrical Engineering — *Aug. 2021 – May 2025*

Jagdish Nandan College — Madhubani, Bihar
Intermediate in Science — *Aug. 2018 – Mar 2020*

Experience

Software Engineer Intern — June-July 2024
Swap Digit IT Services — *Uttar Pradesh, India*

- Enabled the platform to analyze the historical performance of applications based on logging patterns using npm-winston and Prometheus
- Diagnosed and resolved frontend issues in the React.js web applications, optimizing performance and reducing re-rendering by 50% to 80%, resulting in an enhanced user experience and improved application efficiency.

Projects

Sales Forecasting & Performance Dashboard

- Tools Used : Power BI, Python, Pandas, Scikit-learn, DAX, SQL
- Built a Power BI dashboard to track sales trends and forecast revenue.
- Cleaned and processed data using Python (Pandas, NumPy) for accuracy.
- Integrated forecasts into Power BI for real-time analysis.
- Created DAX measures to analyze growth, product performance, and regional sales.

Stock Market Analysis & Portfolio Optimization

- Tools: Power BI, Python, Scikit-learn, LSTM, PyPortfolioOpt, DAX, SQL
- Developed an interactive Power BI dashboard for stock trend analysis and portfolio optimization.
- Processed historical stock data using Python (Pandas, NumPy) and Yahoo Finance API.
- Built a machine learning model (LSTM/XGBoost) to predict stock price movements.
- Designed DAX measures to calculate key financial metrics like Sharpe Ratio and portfolio returns.

Hospital Readmission Prediction & Patient Analytics

- Tools: Power BI, Python, Scikit-learn, XGBoost, DAX, SQL
- Built a Power BI dashboard to track patient readmission trends and healthcare KPIs.
- Developed a readmission prediction model (Logistic Regression/XGBoost) to identify high-risk patients.
- Integrated prediction results into Power BI for real-time risk analysis and decision-making.
- Created DAX measures to track readmission rates and average length of stay.

Technical Skills

Languages:Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Material-UI , Next.js
Developer Tools: Git, VS Code, Jupyter Notebook
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit learn